

Title (en)

ADJUSTABLE HYDROCEPHALUS VALVE WITH SPRING

Title (de)

EINSTELLBARES HYDROCEPHALUS-VENTIL MIT FEDER

Title (fr)

VANNE RÉGLABLE À RESSORT DESTINÉE À TRAITER L'HYDROCÉPHALIE

Publication

EP 3023119 A2 20160525 (DE)

Application

EP 15003395 A 20130910

Priority

- DE 102012017886 A 20120911
- EP 13773598 A 20130910
- EP 2013002713 W 20130910

Abstract (en)

[origin: WO2014040723A1] The invention relates to an adjustable hydrocephalus valve, which can be locked in the respective selected valve position and unlocked for modifying the valve position. According to the invention, signals are provided for a treating physician in the event that an unlocking and another locking occur.

Abstract (de)

Nach der Erfindung sind an einem einstellbaren Hydrocephalusventil mit Verriegelung in der jeweils gewählten Ventilstellung und Entriegelung zur Veränderung der Ventilstellung Signale für den behandelnden Arzt bei erfolgter Entriegelung und neuer Verriegelung vorgesehen.

IPC 8 full level

A61M 27/00 (2006.01)

CPC (source: EP US)

A61M 27/006 (2013.01 - EP US)

Citation (applicant)

- US 5637083 A 19970610 - BERTRAND WILLIAM J [US], et al
- DE 60024437 T2 20060713 - MEDTRONIC INC [US]
- DE 60315924 T2 20080521 - CODMAN & SHURTLEFF [US]
- DE 69725762 T2 20040429 - MEDTRONIC PS MEDICAL GOLETA [US]
- DE 69808558 T2 20030626 - JOHNSON & JOHNSON PROFESSIONAL [US]
- EP 0421557 B1 19930929 - HAKIM SALOMON [CO], et al
- EP 0688578 B1 19991110 - PACESETTER AB [SE]
- EP 1243826 A2 20020925 - SEIKO INSTR INC [JP]
- EP 1457231 B1 20090513 - INTEGRA NEUROSCIENCES IMPLANTS [FR]
- EP 1604703 B1 20110824 - SOPHYSA SA [FR]
- EP 1642613 B1 20100519 - CODMAN & SHURTLEFF [US]
- EP 2055227 B1 20120201 - CODMAN & SHURTLEFF [US]
- EP 2420284 A2 20120222 - CODMAN & SHURTLEFF [US]
- US 4443214 A 19840417 - MARION BERNARD [FR]
- US 4540400 A 19850910 - HOOVEN MICHAEL D [US]
- US 4551128 A 19851105 - HAKIM SALOMON [CO], et al
- US 4673384 A 19870616 - MARION BERNARD [FR]
- US 4769002 A 19880906 - HOOVEN MICHAEL D [US]
- US 5843013 A 19981201 - LECUYER ALAIN [FR], et al
- US 6840917 B2 20050111 - MARION BERNARD [FR]
- US 8298168 B2 20121030 - BERTRAND WILLIAM JEFFREY [US], et al
- US 2005055009 A1 20050310 - ROSENBERG MEIR [US]
- US 2012197178 A1 20120802 - PRISCO JOHN R [US], et al
- US 2012302937 A1 20121129 - BARR RICHARD HENRY HOWARD [GB]
- US 2013066253 A1 20130314 - BERTRAND WILLIAM JEFFREY [US], et al
- US 2013085441 A1 20130404 - AIHARA YASUO [JP]
- DE 10358145 A1 20040701 - CHRISTOPH MIETHKE GMBH & CO KG [DE]
- DE 102005013720 A1 20120802 - CHRISTOPH MIETHKE GMBH & CO KG [DE]
- EP 2011003903 W 20110804
- DE 102008030942 A1 20100107 - CHRISTOPH MIETHKE GMBH & CO KG [DE]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102012017886 A1 20140313; BR 112014023635 A2 20170620; BR 112014023635 B1 20220104; BR 122020004383 B1 20220329; EP 2885044 A1 20150624; EP 2885044 B1 20190410; EP 3023119 A2 20160525; EP 3023119 A3 20160615; EP 3023119 B1 20230726; EP 3031489 A1 20160615; EP 3031489 B1 20190102; ES 2713386 T3 20190521; ES 2720762 T3 20190724; ES 2958629 T3 20240212; JP 2015531255 A 20151102; JP 6121536 B2 20170426; TR 201906411 T4 20190521; US 2015182734 A1 20150702; US 9572965 B2 20170221; WO 2014040723 A1 20140320

DOCDB simple family (application)

DE 102012017886 A 20120911; BR 112014023635 A 20130910; BR 122020004383 A 20130910; EP 13773598 A 20130910; EP 15003394 A 20130910; EP 15003395 A 20130910; EP 2013002713 W 20130910; ES 13773598 T 20130910; ES 15003394 T 20130910; ES 15003395 T 20130910; JP 2015530318 A 20130910; TR 201906411 T 20130910; US 201514643828 A 20150310